Created in 2000, AGROOF is a worker cooperative, specialized in agroforestry development.

**Research**
- Multidisciplinary scientists network
- Research programs
- Network of experimental plots

**Audiovisual**
- Web tools
- Interactive maps
- Exchange platforms
- Videos
- Webdocumentaries

**Training**
- For students and professionnals

**Development**
- BASE Agroforesterie
- Territorial development
- Network of farmer’s plots
It is a generic term for different types of systems:

sylvopastoral system and agrosylvicultural system

Short definition!

>>> Mixing trees with crops or animals on the same field.
TRADITIONAL AFS
Cows under apple trees in Normandy
Maize intercropping under Walnut in Dauphiné
60 years later…
2006-2011: 350 projects, 4000 ha

2011-2013: + 8 000 ha

Historic of modern AFS

Historic sites
National programme 2005/06
Experimental plot > 60 ha
Commercial Farm project
Development dynamics in France

- Groupe 1:
  - Motivés: 57.1%
  - Indécis: 14.3%
  - Non intéressés: 28.6%

- Groupe 2:
  - Motivés: 50.0%
  - Indécis: 33.3%
  - Non intéressés: 16.7%

- Groupe 3:
  - Motivés: 33.3%
  - Indécis: 33.3%
  - Non intéressés: 33.3%
Research in Temperate Agroforestry

A key result

30 to 60% more biomass in AFS than in separated crop and woodland systems
Production diversification

Timber  Chemistry  RCW  Mushrooms

Fruits  Firewood  Biomaterials
A win-win strategy?

Aboveground interactions: light

Belowground interactions: water and nitrogen
Impact on water quality
Soil fertility and erosion

Soil fertility

What is the spatial and temporal variability of OM input? What’s its dynamics linked to biological activity? What impact on carbon storage into soil? What impact on fertilization management?
What amenity valuation?
Climate change

Adaptation
- What impact on crop yield?
- Animal welfare?

Attenuation
- How much carbon is stored into the soil?
- What its spatial and temporal dynamics linking to pedofauna?
Biodiversity conservation

Aboveground

Surface

Belowground
Biological control by habitats conservation

Main questions remained:
1 – Functional approach
2 – What impact on predation?
3 – How trees impacts spatial and temporal dynamics?
Varietal/Genetic selection – Adaptation to AFS conditions

Crop’s and tree’s varieties adapted to integrated agricultural production systems: What approach?
PARTICIPATORY APPROACH

Monitoring beneficial diversity – example of the first experiences

Why is it interesting? How to build a participatory approach? What strategy? What tools? ....